| Index of Claims | Application No. | Applicant(s)     |  |  |  |  |  |
|-----------------|-----------------|------------------|--|--|--|--|--|
|                 | 10/023,849      | YAGISHITA ET AL. |  |  |  |  |  |
|                 | Examiner        | Art Unit         |  |  |  |  |  |
|                 | Kiesha L. Rose  | 2822             |  |  |  |  |  |

| √ | Rejected | - | - | (Through numeral)<br>Cancelled | N | Non-Elected  | Α | Appeal   |
|---|----------|---|---|--------------------------------|---|--------------|---|----------|
| = | Allowed  |   | ÷ | Restricted                     | - | Interference | 0 | Objected |
|   |          | _ |   |                                |   |              |   |          |

| Cla                    | aim        | Date    |          |                 |   |           | Cla     | im                | Date     |   |                   |          |               | С        | laim         | Date                |  |               |                     |       |            |                                     |                 |           |          |          |           |          |           |          |
|------------------------|------------|---------|----------|-----------------|---|-----------|---------|-------------------|----------|---|-------------------|----------|---------------|----------|--------------|---------------------|--|---------------|---------------------|-------|------------|-------------------------------------|-----------------|-----------|----------|----------|-----------|----------|-----------|----------|
|                        | <u> </u>   | 4       |          |                 |   |           |         |                   |          |   |                   | m        |               |          |              |                     | - [  |               |                     |       | <u></u>    |                                     |                 |           |          |          | - 1       |          |           |          |
| Final                  | Original   | 7/22/04 |          |                 |   |           |         |                   |          |   | Final             | Original |               |          |              |                     |  |               |                     | Final | Original   |                                     |                 |           |          |          |           |          |           |          |
| التًا                  | ا بِیِّرَا | 72      |          |                 |   |           |         |                   |          |   | 這                 | Žić      |               |          |              |                     |  | 1             |                     | iĒ    | \Zi.       |                                     |                 |           |          |          |           |          |           | }        |
|                        |            | Ŀ       |          |                 |   | $\perp$   |         |                   |          |   |                   |          |               |          |              |                     |  |               |                     |       | 1          |                                     |                 |           |          |          |           |          |           |          |
|                        | 1          |         |          |                 |   | I         |         |                   |          |   |                   | 51       |               |          |              |                     |  |               |                     |       | 101        |                                     |                 |           |          |          |           |          | $\Box$    |          |
|                        | 2          |         |          |                 |   |           |         |                   |          |   |                   | 52       |               |          |              |                     |  |               |                     |       | 102        |                                     |                 |           |          |          |           |          |           |          |
|                        | З          |         |          |                 |   |           |         |                   |          |   |                   | 53       |               |          |              |                     |  |               |                     |       | 103        |                                     |                 |           |          |          |           |          |           |          |
|                        | 4          |         |          | $\Box$          |   |           |         |                   |          |   |                   | 54       |               |          |              |                     |  |               |                     |       | 104        |                                     |                 |           |          |          |           |          | $\Box$    |          |
|                        | 5          |         |          |                 |   | Т         |         | П                 |          |   |                   | 55       |               |          |              |                     |  |               |                     |       | 105        |                                     |                 |           |          |          |           |          | $\exists$ |          |
|                        | 6          |         |          |                 |   |           | $\top$  | П                 |          |   |                   | 56       |               |          | T            |                     |  |               |                     |       | 106        |                                     |                 |           |          | Ì        |           |          | T         |          |
|                        | 7          |         |          |                 |   | Ť         | 1       |                   |          |   |                   | 57       |               |          |              | Ħ                   |  | $\neg \vdash$ | $\top$              |       | 107        |                                     |                 |           |          |          |           |          | T         |          |
|                        | 8          |         |          |                 |   |           |         |                   |          |   |                   | 58       |               | T        |              |                     | T  | $\top$        |                     |       | 108        |                                     | П               |           | T        | ヿ        | $\neg$    |          | T         | $\neg$   |
|                        | 9          |         |          |                 |   |           | 1       |                   |          |   |                   | 59       |               | ╗        |              | $\Box$              |  | $\neg \vdash$ | 1                   |       | 109        | Ť                                   | П               | $\neg$    | ヿ        | 寸        | ヿ         |          | ヿ         | $\neg$   |
|                        | 10         |         |          |                 |   |           | 1       |                   |          |   |                   | 60       | _             | $\neg$   |              |                     | ┪  | _             | +                   |       | 110        |                                     | П               | $\exists$ |          |          | ヿ         |          | 寸         | $\neg$   |
|                        | 11         |         |          | _               |   | 1         | 1       | 1 1               | $\neg$   |   |                   | 61       |               | 1        |              | 1 1                 | $\neg$   | $\top$        |                     |       | 111        |                                     |                 |           | T        | 1        |           |          | $\dashv$  | $\neg$   |
|                        | 12         |         | $\Box$   | $\neg \uparrow$ | $\dashv$  | $\top$    | $\top$  | $\dagger \dagger$ | $\dashv$ |   |                   | 62       |               | $\neg$   | 1            | H                   | $\top$   | $\top$        | T                   |       | 112        | l                                   | П               | 1         |          | T        |           | $\dashv$ | $\dashv$  | ㅓ        |
|                        | 13         |         |          | 1               | T   | $\top$    | +       | 1 1               | ᅥ        |   |                   | 63       |               | _        | 1            | $\Box$              | $\top$   | $\top$        |                     |       | 113        | T                                   | Н               | $\dashv$  | 寸        | $\dashv$ | $\dashv$  | $\dashv$ | 十         | 一        |
|                        | 14         |         |          | $\neg$          | $\dashv$  | $\dagger$ | +       | $\dagger$         | $\neg$   |   | <del>-  </del>    | 64       |               | $\dashv$ | 1            |                     | $\top$   | $\top$        | 1                   |       | 114        | $\vdash$                            | $\Box$          | $\dashv$  |          | $\dashv$ |           | $\dashv$ | $\dashv$  | ᅱ        |
|                        | 15         |         |          | T               | +   | +-        | +       | $\dagger \dagger$ | ᅱ        |   |                   | 65       |               | $\dashv$ | $\top$       |                     | $\dashv$                                       | $\top$        | $\top$              |       | 115        | $\vdash$                            | $\vdash \vdash$ | $\dashv$  | $\dashv$ | $\dashv$ |           | $\dashv$ | $\dashv$  | $\dashv$ |
|                        | 16         |         | $\dashv$ |                 | +   | +         | T       | 1 1               | $\dashv$ |   |                   | 66       | -             | $\dashv$ | †            | $\vdash$            | $\dashv$                                       | +             | $\Box$              |       | 116        |                                     | $\vdash \vdash$ | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$  | 一        |
|                        | 17         |         | $\dashv$ | $\neg +$        | +   | +         | +       | +                 | $\dashv$ |   |                   | 67       | -             |          | $\vdash$     | $\vdash$            | +  | +             | $\forall$           |       | 117        |                                     |                 |           |          | $\dashv$ | -         | $\dashv$ | +         | ᅱ        |
|                        | 18         | _       |          |                 | +   | +         | 1       | 1                 | 一        |   |                   | 68       |               | +        | +            | Н                   | $\dashv$                                       | +             | +                   |       | 118        | -                                   | $\vdash$        | -         |          | $\dashv$ | $\dashv$  | $\dashv$ | +         | $\dashv$ |
|                        | 19         | _       |          | _               | +   | +         | +       | $\vdash$          | $\dashv$ |   | -                 | 69       | $\dashv$      | +        | +            | $\vdash$            | +  | +             | ╁                   |       | 119        |                                     | H               | $\dashv$  | ┪        | $\dashv$ | -         | +        | $\dashv$  | $\dashv$ |
|                        | 20         | _       | -        | $\dashv$        | +   | +         | +       | ┨                 |          |   | -                 | 70       |               | +        | +            | $\vdash$            | +  | +-            | +                   |       | 120        |                                     | H               | -         | -1       | -        |           | -        | +         | $\dashv$ |
|                        | 21         |         |          |                 | +   | ╁         | +       | +                 | $\dashv$ |   |                   | 71       | $\dashv$      | +        | +            | $\vdash$            | +  | +             | ╁┤                  |       | 121        |                                     | $\vdash$        | +         | $\dashv$ | $\dashv$ | -         | -+       | $\dashv$  | ᅱ        |
|                        | 22         |         | -        |                 |   | +-        | +       | +                 | $\dashv$ |   |                   | 72       | $\dashv$      | +        | +            | $\vdash$            | +  | +             | ╁╌                  |       | 122        |                                     | $\vdash$        | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$  | $\dashv$ |
|                        | 23         |         |          | -               |   | ┿         | ╅       | + +               | $\dashv$ |   |                   | 73       |               | - -      | +            | $\vdash$            | +  | +             | +                   |       | 123        |                                     |                 |           | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$  | $\dashv$ |
|                        | 24         |         |          | $\dashv$        | +   | +         | +       | ╂━╂               | ᅱ        |   |                   | 74       | $\dashv$      | +-       | +            | ┝╌┼                 | +  | +             | +                   |       | 123        |                                     | <del>  </del>   | -         |          |          |           | $\dashv$ | $\dashv$  | $\dashv$ |
|                        | 25         |         |          | -               | +   | +         | +       | ╁╌┤               | $\dashv$ |   |                   | 75       | +             | +        | +            | ╀                   | ┿  |               | +                   |       | 125        | -                                   | $\vdash\vdash$  | $\dashv$  | $\dashv$ | -        | $\dashv$  |          | $\dashv$  |          |
|                        | 26         | _       | $\dashv$ | $\dashv$        | +   | +         | +       | $\vdash$          |          |   |                   | 76       | +             | +        | +            | ├+                  | +  |               | +                   |       | 120        |                                     | $\vdash$        | $\dashv$  | $\dashv$ | $\dashv$ |           |          |           | $\dashv$ |
|                        | 27         |         | $\dashv$ | $\dashv$        | +   | ╁         | +       | ++                |          |   |                   | 77       | +             | +        | ╁            | ┝╌┼                 | -  |               | ╌                   |       | 126<br>127 | _                                   | Н               | $\dashv$  | -        | $\dashv$ | $\dashv$  | -+       | $\dashv$  | $\dashv$ |
|                        | 28         |         | $\dashv$ | $\dashv$        | +   | +         | +       | ╁╌                | $\dashv$ |   | -                 |          | +             | +        | +            |                     | -  |               | +                   |       | 127        | ┢                                   | Н               | _         | -        | -        | $\dashv$  | $\dashv$ | $\dashv$  | ᅴ        |
|                        |            |         | $\dashv$ | $\dashv$        | +   | +         | -       | 1                 | $\dashv$ |   | -                 | 78       | $\dashv$      | +        | +            | ┝╌┼                 | -  |               | +                   |       | 128        | <u> </u>                            | H               |           |          | -        |           |          |           | ᅴ        |
|                        | 29         | _       | $\dashv$ | -               | +   | +-        |         | 1                 |          |   | $\longrightarrow$ | 79       | -             |          | ╄            |                     |  | -             | $\vdash$            |       | 129        | _                                   | $\square$       | -         |          | -        | $\dashv$  |          | $\dashv$  | _        |
|                        | 30         | =       | $\dashv$ | $\dashv$        |   | +         | -       | $\vdash$          |          |   |                   | 80       |               | -        | +-           | $\vdash$            | +  | +             | $\vdash$            |       | 130        |                                     | -               | _         |          |          | $\dashv$  | $\dashv$ | $\dashv$  | $\dashv$ |
|                        | 31         | +       |          | +               |   | +-        | +       | $\vdash$          | _        |   |                   | 81       | $\dashv$      | +        | $\vdash$     | $\vdash \vdash$     | +  | +             | +                   |       | 131        | <u> </u>                            | ${oxdot}$       | _         | _        | _        | _         | $\dashv$ | $\dashv$  | $\dashv$ |
| $\vdash \vdash \vdash$ | 32         | 4       | -        |                 | +   | +         | +       | $\vdash$          | $\dashv$ |   |                   | 82       | -             | +        | +            | $\vdash \vdash$     | +  |               | $\vdash$            |       | 132        | $\vdash$                            | ${oxdot}$       | _         | _        | _        |           | -        | $\dashv$  | _        |
| $\vdash$               | 33         | +       | $\dashv$ | -               |   | +         | +       | $\vdash$          | $\dashv$ |   |                   | 83       | _             | +        | $\vdash$     | $\vdash \vdash$     | +  |               | +                   |       | 133        |                                     | ${oxed}$        | _         | -        | _        | _         |          | _         | _        |
|                        | 34         | +       | $\dashv$ | -               | +   | +         | +       | $\vdash$          | $\dashv$ |   |                   | 84       | $\dashv$      | +        | $\vdash$     | $\vdash \vdash$     | 4  |               | +                   |       | 134        | H                                   | $\sqcup$        |           | 4        | $\dashv$ | <b></b> ∤ |          |           | ᅴ        |
|                        | 35         |         |          | -+              | - -   | +         | +       | $\vdash$          |          |   |                   | 85       | +             | +        | $\vdash$     | $\vdash \vdash$     | +  |               | $oldsymbol{\sqcup}$ |       | 135        | <u> </u>                            | $\sqcup$        | _         | _        | $\dashv$ | <b></b> ∤ | $\dashv$ | $\dashv$  | 4        |
|                        | 36         | =       |          | -               |   |           | 1       | $\vdash$          | _        |   |                   | 86       | +             | +        | $\vdash$     | $\vdash \vdash$     | -  |               | +                   |       | 136        |                                     | $\vdash \vdash$ |           |          |          | ļ         | $\dashv$ | 4         | ᅴ        |
|                        | 37         | 1       |          |                 |   |           | +       | $\vdash$          | _        |   |                   | 87       | $\perp$       | +        | $\vdash$     | $\vdash \downarrow$ | _  | - -           | $\dashv$            |       | 137        |                                     |                 |           | _        | _        |           | $\dashv$ | $\dashv$  | ᅴ        |
|                        | 38         | √       | _        |                 |   | +         | +       | $\vdash$          | _        |   |                   | 88       | _             | +        | $\perp$      | $\sqcup$            | -  | 4-            | +                   |       | 138        | $\vdash$                            | $\sqcup$        | ļ         |          |          |           | $\dashv$ | 4         | _        |
|                        | 39         | _       |          | -               |   | +         | +       | +                 |          |   |                   | 89       | $\dashv$      | +        |              | $\vdash \vdash$     | _  | - -           | $\perp \perp$       |       | 139        | $\vdash$                            | $\sqcup$        | ļ         | _        | _        |           | $\dashv$ | $\dashv$  | ᅴ        |
|                        | 40         |         |          | -               |   | $\perp$   | +       | $\sqcup$          |          |   |                   | 90       | _             |          | $\perp$      | $\sqcup$            | 4  |               | $\bot$              |       | 140        | lacksquare                          | Ш               |           |          | _        |           | $\dashv$ | $\dashv$  |          |
|                        | 41         |         |          | _               |   | 1         | 1_      | $\sqcup$          |          |   |                   | 91       | $\perp$       |          | $\perp$      | $\sqcup$            |  | $\perp$       | $\bot$              |       | 141        | Ш                                   | $\sqcup$        |           |          | _        |           | _        | $\perp$   |          |
|                        | 42         | _       |          | _               |   | 4         | $\perp$ | $\sqcup$          | _        |   |                   | 92       |               | _        | <u> </u>     | $\sqcup \downarrow$ | _  |               | $\perp$             |       | 142        | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | Ш               | _         | _        |          | _         |          | $\dashv$  |          |
|                        | 43         |         |          | $\perp$         |   | 4_        | $\perp$ | $\sqcup$          | _        |   |                   | 93       |               | $\bot$   | Ц.           | Ш                   | $\perp$  |               | $\sqcup$            |       | 143        | $oxed{oxed}$                        | Ш               | _         | _        | _        |           | $\perp$  | $\dashv$  |          |
|                        | 44         |         |          |                 | $\perp$   | 1         | ╀-      | $\bot$            |          |   |                   | 94       |               |          | $oxed{oxed}$ | Ш                   | $\perp$  |               | $\sqcup$            |       | 144        | Ш                                   | Ш               |           |          | $\Box$   |           | $\perp$  | $\perp$   |          |
|                        | 45         |         |          |                 | _ _   | $\perp$   | $\perp$ | $\sqcup$          |          |   |                   | 95       |               |          |              | Ш                   |  |               | $oxed{oxed}$        |       | 145        |                                     |                 |           |          |          | I         |          | $\Box$    | _]       |
|                        | 46         |         | _        |                 | $\perp$   | $\perp$   | _       | $\sqcup$          |          |   |                   | 96       |               |          |              |                     |  |               |                     |       | 146        |                                     |                 |           |          |          |           | $\Box$   | $oxed{J}$ |          |
|                        | 47         | $\Box$  |          |                 |   |           |         | oxdot             |          |   |                   | 97       |               |          |              |                     |  |               |                     |       | 147        |                                     |                 |           |          | $\Box$   | ┚         |          |           | 긔        |
|                        | 48         | ]       | [        |                 |   |           |         | $\sqcup$          |          |   |                   | 98       | $\Box \Gamma$ |          |              |                     | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{I}}}$ |               |                     |       | 148        |                                     |                 |           |          |          |           | $\Box$   | T         |          |
|                        | 49         |         | $\Box$   |                 | $oldsymbol{ol}}}}}}}}}}}}}}}}}$ |           | <u></u> |                   | ]        | [ |                   | 99       | $\Box$        | $\perp$  |              | $\coprod$           | $\Box$   |               |                     |       | 149        |                                     |                 |           |          | $\Box$   |           |          |           | $\Box$   |
| . 7                    | 50         |         |          |                 |   |           |         |                   |          |   |                   | 100      |               |          |              |                     |  |               |                     |       | 150        |                                     |                 |           |          |          |           | ı        | ヿ         | ᆿ        |